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7590 01/26/2006 Rockwell Technologies, LLC			EXAMINER COFFY, EMMANUEL		
1201 South Second Street Milwaukee, WI 53204			2157 DATE MAILED: 01/26/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)	
Office Action Summary		09/967,12	24	BATKE ET AL.	
		Examiner		Art Unit	
		Emmanue	l Coffy	2157	
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with the c	orrespondence add	dress
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2a)	Responsive to communication(s) filed on 19 This action is FINAL . 2b) To Since this application is in condition for allow closed in accordance with the practice under	his action is n wance except	on-final. for formal matters, pro		merits is
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5)□ 6)⊠ 7)⊠ 8)□	Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are without claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	Irawn from co			
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10)	The specification is objected to by the Exam The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	nccepted or b) he drawing(s) brection is requir	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CF	
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a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bursee the attached detailed Office action for a line.	ents have bee ents have bee riority docume eau (PCT Rul	n received. n received in Applicati ents have been receive e 17.2(a)).	on No ed in this National S	Stage
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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 19, 2006 has been entered.

Response to Amendment

2. This action is responsive to the amendment filed on January 19, 2006. Claims 1-5, 10 and 15-20 are amended to overcome prior art rejection. Claims 1-20 are pending and represent a system and method for an "Embedded Web-Accessible Industrial Control."

Response to Arguments

- Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.
- 4. Applicant is advised that only the significant amendments are herein addressed.

 All objections not addressed in Applicant's response are herein reiterated.

Claim Objections

5. Claim 1 is objected to because of the following informalities: PLC is not defined within the claim language. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-5, 10,15-20 are rejected under 35 U.S.C. §103(a) as being unpatentable over Papadopoulos et al. (US 6,061,603) in view of Lindner et al. (US 6,640,140) in further view of Bronikowski et al. (6,947,798).

Papadopoulos teaches the invention substantially as claimed including a control system which allows a user to access a programmable Logic Controller (PLC) system over a communication network such as an Internet network using a web browser. The system includes an Internet web interface between the network and the programmable Logic Controller. (See abstract).

As to claim 1, Papadopoulos teaches an industrial control system for controlling an industrial process comprising: (See Fig. 2)

a plurality of I/O devices capable of exchanging signals with the industrial process; (See Fig. 2 (40))

a web access module including a web server coupled to a PLC, wherein the web server is capable of being coupled to at least one remote device via the Internet, and (See Fig. 2 (4, 30, 32, 34, 40); Fig. 3)

wherein the PLC is coupled to the I/O devices; wherein the web access module further includes program development software that can be utilized to generate a

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controller program for at least one of the PLC and one of the I/O devices, and (<u>See col.</u> <u>4, lines 37-39. - Papadopoulos teaches remote commands processing including data flow control.)</u>

wherein the web server is capable of providing the program development software onto the Internet for transmission to the remote device, so that the remote device is able to generate the controller program. (See col. 4, 34-39. - Papadopoulos teaches remote commands processing including data flow control.)

Papadopoulos does not explicitly teach providing the software over the Internet. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this would eliminate the need for an attendant to be present for software changes thereby providing for a cost efficient, fast and flexible system by remotely installing software changes.

Neither Papadopoulos nor Linder teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and programming software remotely provided through the Internet as taught by Lindner, with the system and method for developing software programs disclosed by Bronikowski

because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 2:

As to claim 2, Papadopoulos teaches the industrial control system of claim 1, wherein the PLC and the web server are one of (a) implemented in a single computer executing two programs; and

(b) implemented respectively in two different computers that are in communication via a communication link. (See Fig. 2)

Papadopoulos fails to teach the implementation of the system in a single computer executing two programs. However, Lindner expressly discloses such implementation. (See abstract and Fig. 1.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with the implementation taught by Lindner, because this system would be more robust with one computer executing two programs since it would at the very least eliminate timing or synchronization issues.

Claim 3:

As to claim 3, Papadopoulos teaches the industrial control system of claim 1, wherein the PLC executes the controller program, once the remote device has generated the controller program using the program development software and the controller program has been returned to the web access module from the remote device.

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Papadopoulos fails to teach executing the controller program, once the remote device has generated the controller program. However, Lindner expressly discloses such limitation. (See col. 4, line 35 – col. 5, line 6.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with the remote programming taught by Lindner, because this system would eliminate the need for an attendant to be present to run the actual software.

Neither Papadopoulos nor Linder teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and programming software remotely provided through the Internet as taught by Lindner, with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 4:

As to claim 4, Papadopoulos teaches the industrial control system of claim 1, wherein the program development software is stored within at least one of the PLC, the web server, a memory device within the web access module, a memory device within at least one of the I/O devices and a remote memory device.

Papadopoulos fails to explicitly teach the limitation of claim 4. However, Lindner

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expressly discloses such limitation. (See Fig.1)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with storing the programming software in the PLC as taught by Lindner, because this system would eliminate the need for an attendant to be present to run the actual software.

Neither Papadopoulos nor Linder teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and programming software remotely provided through the Internet as taught by Lindner, with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 5:

As to claim 5, Papadopoulos teaches the industrial control system of claim 4, wherein an existing controller program is stored within at least one of the PLC, the web server, a memory device within the web access module, a memory device within at least one of the I/O devices and a remote memory device.

Papadopoulos fails to explicitly teach the limitation of claim 5. However, Lindner expressly discloses such limitation. (See Fig.1)

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Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with storing the programming software in the PLC as taught by Lindner, because this system would eliminate the need for an attendant to be present to run the actual software.

Claim 10:

As to claim 10, Papadopoulos teaches the industrial control system of claim 1, wherein the web server is coupled to the Internet by way of an Internet interface, and (See Fig. 1)

wherein the PLC is coupled to the I/O devices by way of a control network interface. Papadopoulos fails to explicitly teach the PLC coupled to the I/O devices by way of a control network interface. However, Lindner expressly discloses such limitation. (See Fig.1. 30a, 22b)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with the PLC coupled to the I/O devices by way of a control network interface as taught by Lindner, because this system would be more flexible.

Claim 14:

As to claim 14, Papadopoulos teaches the industrial control system of claim 13, wherein the signal must be received only when the program development software to be sent is a new version of the program development software that has not earlier been communicated to the remote device.

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Papadopoulos fails to explicitly teach the software replacement limitation.

However, Lindner expressly discloses such limitation. (See col. 4, lines 25-30.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with the PLC coupled to the I/O devices by way of a control network interface as taught by Lindner, because this system would be more flexible.

Neither Papadopoulos nor Linder teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and programming software remotely provided through the Internet as taught by Lindner, with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 15:

As to claim 15, Papadopoulos teaches in an industrial control system having a plurality of control devices that operate to monitor and control an industrial process, a web access module coupled to the plurality of control devices, the web access module comprising:

a memory means for storing program development software capable of being utilized to generate a controller program for operation on at least one of the web access

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module and one of the control devices; and (See Fig. 2. (36))

a processor means coupled to the memory means, the processor means for sending the program development software to a remote device and receiving communications concerning the controller program from the remote device, wherein the controller program is generated at the remote device through the use of the program development software, (See Fig. 2.)

Neither Papadopoulos nor Linder teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and programming software remotely provided through the Internet as taught by Lindner, with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

wherein the web access module is further adapted to allow for communications between the processor means and the remote device by way of the Internet. (See col. 4, lines 31-36.)

Papadopoulos does not explicitly teach providing the software over the Internet. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of

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ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this system would eliminate the need for an attendant to be present for software changes.

Claim 16:

As to claim 16, Papadopoulos teaches the web access module of claim 15, wherein the processor means includes a web server and a PLC, and wherein an existing controller program is stored by the memory means in association with a particular version of the program development software. (See Fig. 2, Fig. 3, col. 4, lines 40-45, and col.12, lines 30-34.)

Papadopoulos fails to explicitly teach the limitation of remote programming software. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this system would eliminate the need for an attendant to be present for software changes.

Neither Papadopoulos nor Linder teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above

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and programming software remotely provided through the Internet as taught by Lindner, with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 17:

As to claim 17, Papadopoulos teaches the web access module of claim 16, wherein the control devices are selected from the group consisting of I/O modules, motor controllers, and PLCs. (See Fig. 2 (32) and (40).)

Papadopoulos does not explicitly disclose motor controllers. However, Lindner expressly discloses sensor or actuator (motor controllers). (See Fig.1.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the disclosure of Papadopoulos as articulated above with the motor controllers as disclosed by Lindner, because this system would provide for the remote control of motors.

Claim 18:

As to claim 18, Papadopoulos teaches a method of generating a controller program for at least one control device of an industrial control system that monitors and controls an industrial process, the method comprising:

providing a web server within the industrial control system, wherein the web server is capable of communicating with at least one remote device via the Internet; (See col. 4, lines 25-39.)

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obtaining program development software capable of being used to generate the controller program;

providing the program development software onto the Internet for transmission to the at least one remote device; and

receiving from the at least one remote device the generated controller program.

(See col. 4, lines 40-45.)

Papadopoulos fails to explicitly teach the limitation of remote programming software. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this system would eliminate the need for an attendant to be present for software changes.

Neither Papadopoulos nor Linder teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and programming software remotely provided through the Internet as taught by Lindner, with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather

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than simply specialized data formats.

Claim 19:

As to claim 19, Papadopoulos teaches the method of claim 18, further comprising:

obtaining an existing controller program from a memory device on which the existing controller program is stored, the program development software being associated with the existing controller program; (Fig. 2, col. 4, lines 40-45.)

providing the existing controller program onto the Internet for transmission to the at least one remote device; and

after receiving the generated controller program from the at least one remote device, storing the generated controller program on the memory device in association with a version of the program development software (See col. 12, lines 30-33 – configuration) that was utilized to generate that controller program. (See col. 4, line 45 – receiving response from the remote device.)

Papadopoulos fails to explicitly teach the limitation of remote programming software. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this system would eliminate the need for an attendant to be present for software changes.

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Claim 20:

As to claim 20, Papadopoulos teaches the method of claim 19, wherein the web server and a PLC are included within a web access module, wherein the PLC is coupled to a plurality of additional control devices within the industrial control system, and wherein the controller program is utilized by at least one of the PLC and one of the additional control devices.

Papadopoulos does not disclose a web server and a PLC are included within a web access module and the other limitations recited by above claim. However, Lindner expressly discloses such configuration. (See Fig. 1 and Fig. 2.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos with the configuration disclosed by Lindner, because this system would be more compact.

7. <u>Claims 6-9, 11-12 are rejected under 35 U.S.C. §103(a) as being unpatentable over Papadopoulos et al. (US 6,061,603) in view of Lindner et al. (US 6,640,140.) and in further view of Hauet (US 6,799,077) in further view of Bronikowski et al. (6,947,798).</u>
Claim 6:

As to claim 6, Papadopoulos teaches the industrial control system of claim 5, wherein the web server is capable of sending the existing controller program along with the program development software to the remote device by way of the Internet, so that the remote device is able to modify the existing controller program to generate the controller program.

Neither Papadopoulos nor Lindner teaches a remote device being able to modify

a program. However, Hauet teaches program modifications implemented by a user. (See col. 4, lines 14-20 and col. 3, lines 49-51.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and remotely storing information as taught by Lindner with this notion of user modification as disclosed by Hauet, because this system would allow a user to modify software remotely with minimal human interaction.

Neither Papadopoulos, Linder nor Hauet teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above, programming software remotely provided through the Internet as taught by Lindner and, modifications taught by Hauet with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 7:

As to claim 7, Papadopoulos teaches the industrial control system of claim 6, wherein it is allowable for the remote device to remotely store a backup copy of the controller program generated based upon the existing controller program.

Neither Papadopoulos nor Lindner teaches a remote device storing information. However, Hauet teaches remote storage information. (See col. 4, lines 8-13 and col. 8,

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lines 20-25.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and remotely storing information as taught by Lindner with this notion of remote information storage as disclosed by Hauet, because this system would allow a user to store software remotely with minimal human interaction.

Claim 8:

As to claim 8, Papadopoulos teaches the industrial control system of claim 6, wherein the program development software includes a plurality of versions, (See col. 12, lines 31-33 – configuration refers to version) and wherein the existing controller program and a plurality of additional existing controller programs are stored in association with the respective versions of the program development software that were employed to generate the respective existing controller programs.

Papadopoulos fails to explicitly teach the limitation of remote programming software. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this system would eliminate the need for an attendant to be present for software changes.

Neither Papadopoulos nor Lindner teaches a remote storage of information.

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However, Hauet teaches remote storage information. (See col. 4, lines 8-13 and col. 8, lines 20-25.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and remotely storing information as taught by Lindner with this notion of remote information storage as disclosed by Hauet, because this system would allow a user to store software remotely with minimal human interaction.

Neither Papadopoulos, Linder nor Hauet teach "program development software". However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above, programming software remotely provided through the Internet as taught by Lindner and, modifications taught by Hauet with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 9:

As to claim 9, Papadopoulos teaches the industrial control system of claim 6, wherein the program development software that is sent along with the existing controller program is of a version (See col. 12, lines 31-33 – configuration refers to version) that was used to generate the existing controller program.

Neither Papadopoulos nor Hauet teaches the limitation of remote programming

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software. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this system would eliminate the need for an attendant to be present for software changes.

Neither Papadopoulos, Linder nor Hauet teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above, programming software remotely provided through the Internet as taught by Lindner and, modifications taught by Hauet with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 11:

As to claim 11, Papadopoulos teaches the industrial control system of claim 1, wherein the web server provides the program development software to the remote device in response to a request received from the remote device. (See col. 4, lines 44-45 – receiving response from the remote device)

Neither Papadopoulos nor Hauet teaches the limitation of remote programming

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software. However, Lindner expressly discloses web pages containing ladder scan functionality. (See col. 4, lines 25-30, 42-44, 53-59.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with programming software remotely provided through the Internet as taught by Lindner, because this system would eliminate the need for an attendant to be present for software changes.

Neither Papadopoulos, Linder nor Hauet teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above, programming software remotely provided through the Internet as taught by Lindner and, modifications taught by Hauet with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

Claim 12:

As to claim 12, Papadopoulos teaches the industrial control system of claim 1, wherein the web server provides onto the Internet, in response to a request received from the remote device, (See col. 4, lines 44-45 – receiving response from the remote device)

information indicative of another Internet-accessible location at which the remote

device can obtain desired program development software.

Papadopoulos does not teach the limitation of information indicative of another Internet-accessible location at which the remote device can obtain desired programming software. However, Lindner expressly discloses such limitation. (See col. 4, lines 53-59; See also '077 col. 4, lines 31-36.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above with alternate Internet-accessible location as taught by Lindner or Hauet, because this system would provide redundancy in getting software upgrades.

Neither Papadopoulos, Linder nor Hauet teach "program development software".

However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above, programming software remotely provided through the Internet as taught by Lindner and, modifications taught by Hauet with the system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

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8. Claim 13 is rejected under 35 U.S.C. §103(a) as being unpatentable over

Papadopoulos et al. (US 6,061,603) in view of Lindner et al. (US 6,640,140.) and in further view of Chan et al. (US 6,588,673) in further view of Bronikowski et al. (6,947,798).

As to claim 13, Papadopoulos teaches the industrial control system of claim 1 wherein, prior to the sending of the program development software to the remote device, the web access interface must receive a signal indicative of at least one of a payment agreement and a credit card number from the remote device.

Neither Papadopoulos nor Lindner teaches this notion of payment agreement and credit card number. However, Chan teaches this notion of agreement and credit card number. (See col. 9, lines 51-65.)

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above and remotely storing information as taught by Lindner with this notion of receiving an agreement and credit card number as disclosed by Chan, because this system would allow a user to purchase software upgrades with minimal human interaction.

Neither Papadopoulos, Linder nor Chan teach "program development software". However, Bronikowski does. See abstract, Figs 1-9 and col. 5, line 62-col. 6, line 10.

Hence, it would have been obvious at the time of the invention for an artisan of ordinary skill in the art to combine the teachings of Papadopoulos as articulated above, programming software remotely provided through the Internet as taught by Lindner and, notion of receiving an agreement and credit card number as disclosed by Chan with the

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system and method for developing software programs disclosed by Bronikowski because this system would be capable of handling and utilizing data in a variety of formats associated with many commonly-used third party software programs, rather than simply specialized data formats.

CONCLUSION

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Coffy whose telephone number is (571) 272-3997. The examiner can normally be reached on 8:30 - 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-3997. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Emmanuel Coffy, Patent Examiner Art Unit 2157

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